Precalculus

Notes 6.1

1. Introduction: In Chapter 4, we solved right triangles using trigonometry. Now, we are going to solve \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (triangles with NO right angles) by using the Law of Sines and/or the Law of Cosines.

Law of Sines (equations):

Diagrams:

Ex. 1: (AAS) Find the remaining sides and angle.

Ex. 2: (ASA) See textbook p. 411

1. Ex. 3: (SSA) See Handout: The Ambiguous Case

Ex. 4: (No triangle)

Ex. 5: (2 triangles)

There are 2 possible answers for since Sine is positive in Quadrants I and II and the sum of the triangle’s angles is equal to

Find and . Then find and .

1. Area of an Oblique Triangle

WHY??

Ex. 6: Find .